## Product Pocket Guide\*

#### ExtremeSwitching™ - Modular **PRODUCT** PRODUCT POSITIONING **KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) High-performance custom · Multi-user authentication and Cisco Nexus 7000 CoreFlow2 ASICs for deep policy at scale Cisco Catalyst 6500. visibility and control • Programmable dataplane for 6800, 4500 • Classifies users, devices and future protocol support Juniper EX8200/9200 applications; enforces access Application policy support Brocade FSX 800/1600, control and categorization policies for granular QoS functionality Network Address Translation VDX 8770 and predictable application and server load balancing at Dell C7004/7008/9000 performance scale (NAT and LSNAT) S-Series Flexible architecture allows GRE tunneling deployment from the network Terabit-Class Modular Switches for Unsampled NetFlow data on edge to core and data center, Edge-to-Core and Data Center every port for complete visibility reducing deployment and maintenance costs and simplifying MACSEC link encryption management VXLAN Gateway Cisco Nexus 7000/9000 • High density/performance Tier 4 data center class data center core/EoR, HPC availability with 1+1 control, N+1 Arista 7500X interconnect fabric, campus fabrics, N+N power backbone, or IXP edge/core Juniper EX9200 Lower TCO with only 5.6W/10G Huawei 12000 port power consumption Supports 1/10GE, 40GE and Brocade VDX 8770, MLXe MLAG, limited ISSU and EAPS/ 100GE interfaces ERPS support (~50ms failover) Dell C9000 20.48 Tbs capacity, 11.4B pps Unified, modular XOS operating throughput system Low-latency applications with MPLS and DCBx support 2.3uSec latency across fabric **X8** Cloud Data Center, High Performance Computing, Internet Exchange Point Engineered with Coreflow2 ASICs Multi-user authentication and Cisco Catalyst 4500 for deep visibility and control policy at scale HP 5400 without impacting performance Application policy support Juniper EX6200 High performance/capacity GRF tunneling in a small form factor for cost • Brocade FSX 800 optimization Unsampled NetFlow data on Dell C7004 every port for complete visibility **K-Series** Cost-Effective Modular Switch With Premium Features for Enterprise Campus Edge-To-Small Core

\*For a full product catalog, go to ExtremeNetworks.com/Products



#### ExtremeSwitching — Modular (cont.) **PRODUCT PRODUCT POSITIONING KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) Versatile, cost-effective High-density 1GbE and 10GbE Cisco Catalyst 4500/6500 performance with 1GE, 10GE and connectivity with cost-effective HP 8200zl 40GE interfaces Juniper EX6200/8200 3.8Tbps capacity with 2.8 Bpps Versatile extensible backplane architecture with multiple cost/ Brocade FSX 800/1600, throughput scale IO options VDX 8770 MLAG, limited ISSU and EAPS/ Dell C7004/7008 ERPS support (~50ms failover) Unified, modular XOS operating 8000 system with MPLS support Campus Edge/Core, Data Center or SP Aggregation Switch ExtremeSwitching - Fixed Purpose-built 100GE switch for · Role-based policy support Cisco Nexus 9236C, high-performance enterprise and Nexus 9300-EX • 32 x 100 GE ports cloud data centers Arista 7060CX-32S • Option for up to 128 x 10 GE or Ideal for leaf-spine, as well as top-128 x 25 GE ports enables high-Juniper QFX5200 of-rack deployments density leaf aggregation X870 • Brocade SLX 9240 • Supports 10GE, 25GE, 40GE, Optional DC power High-Density 100Gb Leaf Spine 50GE and 100GE interface rates Dell Z9100 Switch · Unified modular XOS operating system · High-density, low latency Top of · Role-based policy support Cisco Nexus 9300 Rack (ToR) switch with 32 x 40GE • Low latency (less than 600ns) Arista 7050Q-16. 7050QX-32 • 1588 PTP timing support Can support up to 104 ports of Juniper QFX3600, Optional DC power 10GF QFX5100-24Q X770 Unified, modular XOS operating HP 5930 High-Density ToR Data Center system including heterogeneous Switch stacking Brocade ICX 7750, VDX 6940 Dell S6000 · High-performance Top of Rack · Role-based policy support • Cisco Nexus 9300, 55xx switch with up to 72 x 10GE fiber 40 GE uplinks Cisco Catalyst 4500-X interfaces · Industry-leading density Arista 7148S/SX, 7050S, Ideal for 10GE/40GE leaf and 7150S-52/64, HP 5900AF spine architectures Low latency (less than 600ns) Juniper EX4550 • IEEE 1588 Precision Timing X670-G2 Protocol (PTP) support Brocade ICX6650, VDX6740 Verasatile ToR Data Center Switch · Optional DC power Dell S4820/4048, N4000 Unified modular XOS operating system including heterogeneous stacking



#### ExtremeSwitching - Fixed (cont.) **PRODUCT PRODUCT POSITIONING KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) Top of Rack switch with 24 or 48 Cisco Nexus 3548, · High-density, cost-effective 1GE and 10GE interfaces 10Gbase-T support 3064-X, 55xx · Supports advanced features such · 40GE uplinks Cisco Catalyst 4500-X as Data Center Bridging (DCB) · Role Based policy support Arista 7148S/SX, and Virtual Switch Bonding (VSB) 7050S, 7150S-52/64 Modular fans with reversible Identical software features as the airflow HP 5900AF S-Series and K-Series modular 7100K-Series switches (without CoreFlow2 · VSB stacking with 7100G-Series Juniper EX4550 support) High-Density 10 Gigabit Ethernet Brocade ICX6650, Data Center Switch VDX6740 Dell S4048, N4000 Complete family of 10GBASE-T Compact 10 port versions for Cisco Catalyst 4500X and SFP+ fiber models both 10GBASE-T and SFP+ fiber Cisco Catalyst 3850-12XS : .... z Support for 2.5 GE and 5 GE 10Gb Ethernet 10 port and 16 port HP 3810 16SFP+ multi-rate as well as 60W PoE++ 10 1111 1111 11 Brocade ICX 7450 Ideal for small storage and data Hot swappable modular 16 port center applications versions with configurable air Dell X4012 flow and AC / DC power options · Flexible management Family of 10Gb Ethernet options with integrated web Edge Switches management, Extreme Control Center, and advanced command line interface • Unified, modular XOS operating system including stacking · Highly intelligent switch for Top of Modular switch capabilities in a • Cisco Catalyst 4500-X Rack or 1GE aggregation fixed platform Brocade ICX 6450/7250 Entry-level CoreFlow2 switch Network Address Translation Dell S3048 and server load balancing at scale (NAT and LSNAT) S-Series Standalone (SSA) GRE tunneling Highly Intelligent Switch for • Unsampled NetFlow data on Advanced Data Center or Campus every port for complete visibility Edge Applications High-capacity intelligent edge · 10 and 40 GE uplinks · Cisco Catalyst 3850 switch with increased capacity · Designed to meet NEBS Juniper EX4300 and stacking options requirements Brocade ICX 6610/7450 Up to 512K routing table sizes for Optional DC power Layer 3 routing EAPS/ERPS support (~50ms High-scalability to meet service failover) provider requirements X480 Unified, modular XOS operating system including heterogeneous High-Capacity, Stackable

stacking



Intelligent Edge Switch

#### ExtremeSwitching - Fixed (cont.) **PRODUCT PRODUCT POSITIONING KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) · Data Center Top of Rack (ToR) or · 40GE uplinks Cisco Nexus 3048 advanced campus edge switch · Cisco Catalyst 3850 • Role based policy support with 1 GE interfaces Arista 7048T-A Extremely cost-effective model Versatile chassis supports 48-port supporting 24 copper and 24 copper, 48-port fiber or 24-ports Brocade ICX6610 fiber on one chassis of each Juniper EX4300 VSB stacking with 7100K-Series Identical software features as the 7100G-Series S-Series and K-Series modular switches (without CoreFlow2 Versatile 1 Gigabit Ethernet Data support) Center and Campus Edge Switch • Cisco Catalyst 3850, 3650, · Powerful and scalable, versatile · Role-based policy support intelligent edge switch with 3750-X, 3560-X Up to 1668w of PoE+ power for enhanced PoE+ support up to 30w per port HP 3800 / Aruba 3810 · Optional DC power Juniper EX4300 1 GE / 2.5 GE multi-rate interface Brocade ICX 6610/7450 --------option (up to 16 ports) · Modular fans with reversible airflow X460-G2 Series • IEEE 1588 Precision Timing Protocol (PTP) support Scalable, Versatile Intelligent Edge Switch With PoE+ Support Unified, modular XOS operating system including heterogeneous stacking Cost-effective 10/100/1000 Cisco Catalyst 2960-X, · Role-based policy support switch with 24 or 48 interfaces 2960-S Modular, hot-swappable fans and Available PoE power with up to 30 HP 2920, 5130 EI available PoE power supplies watts per port Unified, modular XOS operating Juniper EX3300 system including heterogeneous Brocade ICX 6450/7250 X450-G2 stacking Dell S3048, X1500 Versatile, Cost-Effective Edge Supports 4 front-mounted 1GbE Switch With Role-Based Policy or 10GbE uplinks • Quad 1 GbE uplinks upgradable Cisco Catalyst 2960X • 12, 24 and 48 port 10/100/1000 PoE+ and non-PoE switches to 10GbE and 2960S 24 port SFP, 24 port 100Base- HP 2920 and 5130 • Dynamic Policy support FX and 12 10/100/1000 with 8 0°C to 60°C on some models Juniper EX3300/3400 100Base-FX models Fan-less operation on 12 port Brocade ICX 6450/7250 · Quad 1 GbE uplinks upgradable to models in office environments 10GbE on most models External redundant power · Dynamic Policy support support for all models • Layer 2 and basic Layer 3 routing X440-G2 Lowest Entry Cost Stackable Switch Supporting Dynamic Policy and 10GbE Uplinks



#### ExtremeSwitching - Fixed (cont.) **PRODUCT PRODUCT POSITIONING KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) Entry-level standalone switch with Cisco 500, 300 Fixed power supply = ::::: ::::: 10/100/1000 interfaces HP 2500 • PoE support for 8 and 24 port · Layer 2 switching only models only Juniper 2200 • Supports 24 or 48 ports • Unified, modular XOS Brocade ICX 6430 X430 without PoE operating system Dell X1000 Entry Level Access Edge Switch • Supports 8 or 24 ports with PoE · Cisco 300 / 500 Economical 1 GE Layer 2/3 access Flexible management including switches ExtremeCloud, Web GUI, and HP OfficeConnect industry-standard CLI Available in 12, 24 and 48-port 1920/1950, 2500 • 1 and 10 GE uplink options models with and without PoF+ Brocade ICX 6430/6450 Ideal for small to medium business · Up to 4-high stacking Dell X1000 and distributed enterprises · Comprehensive Layer 2 features 200-Series with static and dynamic RIP Managed Gigabit switches for Enterprise and SMB ExtremeSwitching - Mobile Backhaul EAPS/ERPS support Cisco MWR 2900 • Stackable cell site router with Layer 2 and 3 transport and (~50ms failover) · Alcatel-Lucent 7705 SAR-F SyncE clock synchronization for HHHHHHHH---- 3 3 ... · Unified, modular XOS Ericsson MINI-LINK SP service provider mobile backhaul operating system applications Huawei ATN E4G-200 and E4G-400 Mobile Backhaul Switches for Service Providers ExtremeWireless™ Ideal for small service areas such Perfect workgroup AP with Cisco policy controlled Wi-Fi, BTLE or as residence halls, patient rooms, HP/Aruba or conference rooms 802.15.4 and 3 LAN ports in a single easy to install package Ruckus Save on time and money by installing this into existing • 802.11ac W2 and a 3rd radio for Xirrus Ethernet wall plates IoT devices Ubiquiti PoE out to power devices such Internet of Things (IoT) as IP Phone, IPTV, etc. **Ready Access Points:** · Also a 4th LAN port provides AP3912i - Wallplate AP pass through connectivity from the switch to a connected device Simplifies Installation By Reusing Existing Ethernet Cabling · Perfect for classrooms and • Combines the access point Fortinet smart buildings with an integrated surveillance camera into a single package Save time and money by eliminating the need to run • Create a layer 7 policy to separate cable and/or power prioritize video traffic, at the AP **IoT Ready Access Points:** for camera This can also be installed in a AP3916i — Camera AP • Install one product to get both mesh to extend camera AP out secured Wi-Fi service and video to hard to reach areas where you The First HD Camera Integrated surveillance for physical security may not want to run a cable Into a Flow-Based, 802.11ac W2 AP: Perfect for Classrooms and Smart Buildings



#### ExtremeWireless (cont.)

#### PRODUCT POSITIONING **PRODUCT KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) · Flow based architecture for · Optimized for high-density Cisco Aironet greater performance and provides deployments with four • Aruba F application visibility when dedicated single-band antenna combined with ExtremeAnalytics ports per band (8 total) and Ruckus quad and eight-feed antennas All competitors are Support for demanding voice/ video/data applications No traffic bottlenecks...and expected to have Wave 2 Indoor Access Points: to enhance mobile worker transparent PoE failover for offerings AP3935i/e mission critical deployments productivity and convenience Ultra Performance for High-Role-based grouping of users, Cloud-ready for zero-touch Density Deployments devices, and applications to provisioning to private or public deliver priority, QoS, and security in accordance with business needs · Supports high-density of users and applications with 802.11ac Wave 2 technology providing 25%+ higher-effective throughput than 802.11ac Wave 1 offerings · Extends Wi-Fi beyond the · IP67 / NEMA 6 certified for · Cisco Aironet use in harsh manufacturing building extending Wi-Fi • Aruba access outdoors. uses the same environments and severe policy and single pane of glass weather conditions Ruckus management as the indoor APs Optimized for high-density · Perfect for stadiums and deployments with four other outdoor venues, such dedicated single-band antenna **Outdoor Access Points:** as warehouses, mines, and ports per band (8 total) and AP3965i/e guad and eight-feed antennas manufacturing plants Ultra-Performance Industrial • Add AP3965X is designed to The AP3965i has an integrated Grade Access Points Designed support a high-density of users 8-antenna array for easeto Operate in High-Density and and applications with 802.11ac of-deployment and lower Harsh Environments Wave 2 technology providing installation costs 25%+ higher-effective throughput Full range of high-performance than 802.11ac Wave 1 offerings MIMO antenna offerings for service, meshing and backhaul services · Adapts to customer's business Optimized for high-density · Cisco Aironet needs by simultaneously deployments as validated in Cisco Meraki supporting bridge@AP, bridge@ stadiums controller, and route@controller Aerohive · No traffic bottlenecks - Ethernet data paths within the same SSID ports designed to process Wi-Fi Aruba Supports high-density of users, traffic as fast as it comes in Ruckus **Indoor Access Points:** APs, and applications with · Independent, intelligent APs optimized data paths and role-AP3801i, AP3805i/e, do not require controller based QoS and access control access to provide security, RF and AP3825i/e WIDS, WIPS, Spectrum analysis, management and spectrum Full Range of Indoor APs Priced QoS, and role-based access. analysis. Combines the to Provide Wi-Fi Connectivity for control are built into the network scalability of a centralized Any Environment and not bolted-on providing design with the flexibility and performance of a distributed visibility, security, and control data plane



#### ExtremeWireless (cont.)

Extreme wheless (cont.)						
PRODUCT	PRODUCT POSITIONING	KEY DIFFERENTIATORS	COMPETITIVE PRODUCT(S)			
Outdoor Access Points:  AP3865e  Industrial Grade Access Points Designed to Operate in Harsh Environments	Extends Wi-Fi beyond the building extending Wi-Fi access outdoors. uses the same policy and single pane of glass management as the indoor APs     Perfect for stadiums and other outdoor venues, such as warehouses, mines, and manufacturing plants	IP67 / NEMA 6 certified for use in harsh manufacturing environments and severe weather conditions     Optimized for high-density deployments with 3 dedicated antenna ports per band supporting triple feed and 6 feed antennas      Full range of high-performance MIMO antenna offerings for service, meshing and backhaul services	<ul><li>Cisco Aironet</li><li>Cisco Meraki</li><li>Aerohive</li><li>Aruba</li><li>Ruckus</li></ul>			
Physical and Virtual Appliances: V2110, C35, C5210 Virtual or Physical Appliances Provide Role Based Controls for Wi-Fi Users, Devices, and Apps	Flexibility allows appliances to simultaneously control all APs, some APs or allow APs to run independent of appliance     Can be deployed as a managed service where appliances are centralized and APs. geographically distributed     Built in high availability is included with sub-one second failover to maintain voice connectivity	Scales from small branch to large enterprise to datacenter.  Full management through the appliance or centralize management with ExtremeControl.  Optimized for data convergence (voice, video, and data)  Hardware-based encryption acceleration for up to 18Gbps of data capacity	Cisco Aironet  Cisco Meraki  Aerohive  Aruba  Ruckus			
Radar Wi-Fi Security and Spectrum Analysis. Simultaneous Wi-Fi Access and Assessment Mode or Full Time Assessment With Guardian Mode	Built into the Wi-Fi solution provides greater RF visibility and control than using a 3rd party solution     Integrated with ExtremeControl for single pane of glass Wi-Fi/wired management	Flexibility allows the customer to use solution option best suited to their needs:     In-service mode scans in service channel while simultaneously providing Wi-Fi access     Guardian mode puts the AP in full time sensor mode to continuously scan all channels     AP can be switched between Guardian and in-service mode at anytime Radar comes with ExtremeManagement	Cisco CleanAir Cisco Spectrum Expert Wi-Fi Aruba Spectrum Analyzer Module			



#### ExtremeWireless™ WiNG PRODUCT POSITIONING **PRODUCT KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) Aruba AP330 · Specifically designed for high 4x4:4 wave 2 technology density applications, RF security supporting the highest capacity Cisco AP1852 and guest engagement Dedicated dual band RF radio Meraki MR53 for full time WIDs/WIPS and RF Tri-radios, triple sensor Ruckus R710 technology spectrum analysis **Indoor Access Point** Integrated Bluetooth and BLE for Scales from 1 AP, to controller- Aerohive AP550 guest engagement less networks of 64 APs, to **AP 8533** networks up to 25,000 AP with 802.11ac Wave 2 with MU-MIMO NOC controllers and cloud and Tri-Radios for High-Density Internal and external antennas and Security · Specifically designed for high • 4x4:4 wave 2 technology Aruba AP330 density applications, RF security, supporting the highest capacity Cisco AP1852 guest engagement and IoT Dedicated dual band RF radio Meraki MR53 Integrated Bluetooth and BLE for for full time WIDs/WIPS and RF Ruckus R710 guest engagement spectrum analysis **Indoor Access Point** • Enables Internet of Things with Built in PoE out to connect with Aerohive AP550 **AP 8432** PoE pass-through third party IoT devices 802.11ac Wave 2 with MU-MIMO Scales from 1 AP, to controllerfor High-Density, Security, and less networks of 64 APs, to Internet of Things (IoT) networks up to 25,000 AP with NOC controllers and cloud AP 7532 is 3x3:3 Aruba · Mid-tier, high performance Wave 1 access points for cost sensitive AP 7522 is 2x2:2 Cisco applications Scales from standalone Hotspot Meraki Dual radio, supporting 2.4 GHz **Indoor Access Points:** AP to controller-less networks and 5 GHz and 802.11 a/b/g/n/ac Ruckus of 64 APs with virtual controller AP 7532, AP 7522 technology with no AP licensing · Aerohive High-Performance, Cost-Effective or hardware appliance 802.11ac Wave 1 Technology Supported by WiNG NOC controllers and cloud Internal and external antennas • 802.11ac wave 1 · Price/performance to meet the Aruba needs of massive deployments of · Configurable radios as single Cisco distributed branch offices. 2x2:2 or dual 1x1:1 Meraki Configurable RF and performance Fully integrated WiNG controller flexibility to tune to specific needs Ruckus to build controller-less networks **Indoor Access Point** Simple deployments, choice of up to 25 APs or with NOC or Aerohive **AP 7622** standalone, simple autonomous cloud solutions for branch networks or NOC/cloud solutions solution applications Purpose-Built for Massive Distributed Branch Solutions Integrated BLE for guest engagement



#### ExtremeWireless™ WiNG

Extremewireless wing					
PRODUCT	PRODUCT POSITIONING	KEY DIFFERENTIATORS	COMPETITIVE PRODUCT(S)		
Wall Plate Access Point AP 7602 Specifically Designed for In-Room Hospitality Applications	Purpose built wall plate access point with integrated BLE and Ethernet ports  Slim and trim, the AP hides in plain sight for clean room aesthetics  Quick install, less than 2 minutes with secured mounting	802.11ac Wave 1     Configurable radios as single 2x2:2 or dual 1x1:1     Fully integrated WiNG controller to build controller-less networks up to 25 APs or with NOC or cloud solutions     Integrated managed Ethernet ports     Integrated BLE for guest engagement	<ul> <li>Ruckus H510</li> <li>Cisco AP 361</li> <li>Xirrus XR 320</li> <li>Aruba 203H</li> </ul>		
Wall Plate Access Point AP 7502 Specifically Designed for In-Room Hospitality Applications	Purpose built wall plate access point with integrated Ethernet ports and PoE pass through  Smallest possible, design measuring 90mm x 95mm  Quick install, less than 2 minutes with secured mounting	802.11ac Wave 1     Dual radios, 2.4GHz and 5 GHz     The smallest 802.11ac wall plate AP available     Fully integrated WiNG controller to build controller-less networks up to 25 APs or with NOC or cloud solutions	Ruckus H510     Cisco AP 361     Xirrus XR 320		
Wall Plate Access Point TW 522 Solution Wireless Over VDSL	Industry unique solution  Purpose built for hospitality inroom Wi-Fi  Allows hotels to deliver Wi-Fi over existing telephone twisted pair into the guest room  Hide in plain sight design with simple and fast deployments, less than 2 minutes per room.	Patented line power over phone wire  Uses existing telephone (CAT3) twisted pair which is installed in all rooms already. Saving cost of pulling new CAT 5/6 cables and disrupting guest  No disruption to guest, install can be done during normal room service	No other vendor has a VDSL solution     Competitors are either Ethernet based or offer a cable modem solution		
Outdoor Access Point AP 7562 Rugged, Industrial-Grade for the Most Demanding Applications	Not just a repackage of an indoor AP. The AP 7562 has been purpose built inside and out for outdoor applications  Specially designed outdoor IP67-RATED diecast aluminum enclosure  Built to meet industrial applications with M12 version certified for subway and railroads  Vehicle Mounted Modem option	802.11ac 3x3:3 for high performance outdoor applications     Extreme's patented MESHConnex™ Creating a Mesh network on both radios allows automatic failover for superior uptime and survivability.     Self-forms and self-heals into a mesh router eliminating any disruption in wireless connectivity.     EN 50155 Railway Certification	Aruba     Cisco     Ruckus		



#### ExtremeWireless™ WiNG

#### **PRODUCT PRODUCT POSITIONING KEY DIFFERENTIATORS** COMPETITIVE PRODUCT(S) • WiNG enjoys unprecedented • The same WiNG OS operates Aruba scalability and offers controllers to across all controllers, as well as Cisco meet the specific needs of branch on the access points themselves solutions Meraki • AP support: Hierarchical software allows uses NX5500: 512 of various size controllers, as well as controller-less branches to be • NX7500: 1048 WiNG Controllers: NX5500, managed NX9600: 10,240 NX7500, NX9600, VX9000 VX9000: 25,000 Unrivaled Scalability in Distributed Wireless client support scales **Branch Solutions** from 16K to over 200,000 Flexible and graphical WLAN Network analytics is displayed Aruba management solution that makes in easy-to-read highly-graphical Cisco it easy to access the wealth of screens, in real time or over a powerful information time period of your choosing, for Meraki easy trend analysis Keeps you on top of all the key characteristics of your network: Create custom role-based dashboards from help desk staff • Network analytics for trend to the CIO analysis Interactive maps drill down into **Extreme NSight** Role-Based Dashboards for a site or a specific access point various users Provides Rich Analytics for Easy within a site - as well as its Network Visualization, Monitoring, Interactive Maps for quick connected client devices - all and Troubleshooting problem resolution with just a few clicks. Customized reports Comprehensive library of pre-defined and customizable Wireless IPS system protects · Detects 199 wireless threats. • Aruba your network against over the air reducing the chances of damage Cisco attacks including detecting and to your network Meraki terminating rogue access points Advanced Forensics module It combines the information captures 325 data points every AirDefense is the leading collected from the network of minute for every identified security solution, including sensors or access points with the wireless device the largest threat library, analytical power of an intelligent 199, and the most **Extreme AirDefense** Administrators have the central console compliance reports, 5, ability to rewind and analyze Industry Leading Wireless including PCI and HIPAA Provides 24/7 network detailed records of wireless Intrusion Prevention System monitoring, automate security, activity in support of forensics protects your WiFi network and and enable regulatory compliance investigations or network assists with enforcing regulatory performance troubleshooting compliance requirements · Wireless Vulnerability Assessment module uses an industry-first, patented technology to remotely test wireless security



#### ExtremeManagement™

#### **PRODUCT**

## Extreme Management Center NetSight

## (Extreme) Management Center formerly NetSight

Single Pane of Glass Management System That Provides Wired/ Wireless Visibility and Control

#### **PRODUCT POSITIONING**

- A single management system for the entire network providing consistent management across all devices
- Standards based and easily supports SNMP based third party devices in addition to the Extreme family of devices
- Cuts down troubleshooting time and manage any network
- Easy policy enforcement networkwide for QoS, bandwidth, etc.

#### **KEY DIFFERENTIATORS**

- Single management system for the entire network infrastructure - wired, wireless, 3rd party
- Open and published interface (or API)
- Future proof Easily scales from the smallest to the largest network
- Eliminates manual tasks with built in automation

#### COMPETITIVE PRODUCT(S)

- Cisco ISE
- · ForeScout CounterACT
- Aruba ClearPass
- Juniper UAC
- · Bradford Network Sentry

#### ExtremeCloud™



#### **ExtremeCloud**

Single Pane of Glass Wired/ Wireless Cloud-Managed Networks

- Targeted at organizations with limited IT or highly distributed environment (Remote office/ Branch office, retail, etc.)
- Highly scalable, from 1 to 10,000 APs and unlimited number of switches per customer
- Should NOT be positioned against on-premise solution BUT used to acquire new logos
- Aligns with organizations' objective to reduce CapEx and scale OpEx with business needs
- Application Adaptive Infrastructure — Visibility and control. The flow-based architecture identifies and prioritizes business applications over unwanted applications for a quality of user experience
- Investment Protection The same hardware and firmware for both on-premise and cloud managed. Customers are not locked into a deployment model Cisco/Meraki cannot do this
- Simplicity, From Provisioning to Day-to-Day Operations - With zero touch provisioning APs and Switches locate ExtremeCloud and are operational within minutes. Firmware updates, pushed from ExtremeCloud
- Business Aligned Subscription based model aligns spend with business growth
- World Class Support —
   ExtremeCloud backed by industries only 100% insourced service and support

- Meraki
- Aerohive



#### ExtremeControl™

#### **PRODUCT**

#### **PRODUCT POSITIONING**

#### KEY DIFFERENTIATORS

#### COMPETITIVE PRODUCT(S)



#### (Extreme) Access Control

formerly NAC and Mobile IAM

Standards-Based, Multi-Vendor Interoperable Solution for Wired and Wireless LAN and VPN Users. It Provides Business- Oriented Visibility and Control Over Individual Users and Applications in Multi-Vendor Infrastructures

- Provides user identity functionality including discovery, authentication and role based access controls
- Protects corporate data by proactively preventing unauthorized users, compromised endpoints, and other vulnerable systems from accessing the network
- Addresses compliance and regulatory requirements by providing comprehensive reporting on user activity that can be exported to third party reporting tools
- Easily deployed in an Extreme only, mixed or non-Extreme environment

- Configuration options provide an unparalleled range of choices for fine grained network control including time of day, location, authentication types, device and OS type, and end system and user groups
- Automated guest access control with sponsorship, SMS verification, pre-registration, and other options
- Easy integration with third party management tools for MDM, Next Generation Firewall (NGFW), SEIM, IPS and more
- Ability to link with other business processes such as LDAP and RADIUS

- Cisco ISE
- ForeScout CounterACT
- Aruba ClearPass
- Juniper UAC
- · Bradford Network Sentry

#### ExtremeAnalytics™



### (Extreme) Application Analytics

formerly Purview

A Network-Powered Application Analytics and Optimization Solution

- Pervasive analytics across the network from datacenter to distribution - access edge with no chokepoint in the network
- Integrated with Extreme Control Center providing a single management system
- Adds value to the business by using application analytics to provide business intelligence analytics
- Actionable context-based knowledge about applications, users, locations and devices
- Over 13,000 open and customizable fingerprints
- Complements and integrates with other third party management products
- Massive scalability Works at Terabit speeds and can collect millions of flows per minute without any performance impact to the switch
- Cisco AVC/NBAR
- Meraki
- NAM
- Sourcefire
- Riverbed Cascade and Opnet
- Aerohive HiveManager
- Aruba AppRF

#### ExtremeWorks™ Managed Services

# © 1000 -

SERVICE

#### Managed Services MonitoringPLUS

Enables better use of current IT staff

**POSITIONING** 

- Extreme Networks' provides the phone, software and hardware support
- Fills IT expertise gaps as technology accelerates

#### **KEY DIFFERENTIATORS**

- 24x7x365 monitoring with proactive notification
- Network configuration storage
- Instant customer visibility to the network
- Next Business Day support is included, with 4 hour and on-site options available

#### **BUSINESS VALUE**

- Enables highly skilled IT staff to move onto more strategic projects
- Saves hiring and training costs
- Ensures awareness of network loads and performance
- Minimizes the impact of network issues through proactive notification



#### ExtremeWorks™ Managed Services

SERVICE	POSITIONING	KEY DIFFERENTIATORS	BUSINESS VALUE
Managed Services ResponsePLUS  In Addition to Features of MonitoringPLUS	Ensures network issues are found and resolved before they create productivity issues     Helps you to make better budget and network infrastructure decisions based on real data and observations of network performance	Accelerated problem     detection and resolution of     Extreme Networks supported     devices, including updating     configurations and software or     making hardware changes      Designated Service Manager for     problem resolution     Semi-annual reviews	Proactive resolution minimizes the impact network performance issues Faster resolution because of management of support issues More proactive budgeting due to discussions around network improvements, scalability, and design based on real data
Professional Services	Deployment of Bring Your Own Device (BYOD/mobility)     Site surveys and deployment of wireless services     Deployment of any Extreme Networks solutions     On-site IT staff augmentation	Managed deployment     Comprehensive installation     Project management     Network & Security Consulting     Resident engineering services	Maximizes IT investments by using highly trained experts to ensure faster accurate set up and configuration     Saves on IT hiring and training costs     Avoids getting IT staff "up to speed" with installation of new technologies and capabilities     Fills the gaps in IT staff needs
Maintenance Services	Call anytime from anywhere to talk to an Extreme Networks expert  Ensure that devices are running the latest application and operating system software  Get parts when they're needed  Go to the web to log and check status on cases and find additional information	Global presence     24x7x365 in-house technical assistance     Software updates and upgrades     Wide variety of hardware replacement options     Flexible go to market options     Web access to solutions, knowledgebase & community     Premier Services offer additional customer engagement	Provides choices to match customer's budget and network demands  Helps ensure network performance and health  Flexible go-to-market model enables Partner to engage as much as they desire, providing they meet program requirements  Enables your IT staff to focus on other more strategic tasks



http://www.extremenetworks.com/contact / Phone +1-408-579-2800

©2017 Extreme Networks, Inc. All rights reserved. Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries. All other names are the property of their respective owners. For additional information on Extreme Networks Trademarks please see http://www.extremenetworks.com/company/legal/trademarks. Specifications and product availability are subject to change without notice. 7573-0417-28

WWW.EXTREMENETWORKS.COM Product Pocket Guide 1